

# Shaurya Chandhoke

732-379-8069 | chandhoke.shaurya@gmail.com | shaurya-chandhoke.github.io

## PROFESSIONAL EXPERIENCE

---

### ADP

Software Engineer

Roseland, NJ

Aug 2020 – Present

- Implemented online development system that manages design-to-deployment process for APIs; increased conversion rate by 35%.
- Created streamlined web components that parse complex JSON objects to improve page rendering of large documents; improved site efficiency by 20%-30%.
- Established autonomous microservices to facilitate manual processes during software development; enhanced work throughput by 15%.
- Compiled monthly reports using analytical libraries to identify user heatmaps within products for further refinement; reduced negative user feedback scores by 12%-15%.

### ADP

Global Product and Technology Intern

Roseland, NJ

May 2019 – Aug 2019

- Refined 5+ server-side CLI tools for API development; presented improvements to project manager.
- Collaborated with engineers on automation using IBM Watson chat bots; obtained 100% adoption rate from test group of 15 members.
- Operated under CI/CD and agile methodology to organize and carry out project tasks with emphasis in quality and reliability; instituted custom bug triaging framework.

### NEW JERSEY INSTITUTE OF TECHNOLOGY

Research Assistant

Newark, NJ

Jan 2018 – Dec 2018

- Manufactured cohesive system for connecting A2M8 lidar with Zumo 32U4 robot; published system design proposal to university research department.
- Architected sensor fusion program for simultaneous localization and mapping via data marshaling and multithreaded programming.
- Engineered roadway pothole mapping application using lidar sensors in productive, cost-effective manner; received TechQuest innovation grant for \$10,000.

## PROJECTS

---

### TENOR AI

- Launched multi platform application wielding machine learning models to create personal assistant; exceeded 50+ users with average 10+ new daily active users.

### COMPUTER VISION TOOLKIT

- Produced collection of computer vision tools varying from edge tracing to sky detection; attained 30+ toolkit downloads.

### GOOGLE TRANSLATE CLONE

- Forged machine learning model under Seq2Seq architecture to yield multilingual text translator.

### BLACK SCHOLES PRICING SYSTEM

- Formulated open source full-stack web application which prices European option contracts using Black Scholes Merton partial differential equation; utilized personally when trading.

### FAMA FRENCH ALLOCATION ENGINE

- Designed algorithmic engine leveraging Fama French Three Factor model to simulate long/short trading strategies; yielded 3x investment profit via paper-trading.

### SUPERVISED LEARNING CHALLENGE

- Composed custom support vector machine learning model to predict large, anonymized dataset with 200+ features; placed within top of class with highest accuracy.

## EDUCATION

---

### STEVENS INSTITUTE OF TECHNOLOGY

Master of Science in Machine Learning

Hoboken, NJ

Sept 2020 – May 2023

- Certificate in Algorithmic Trading.

### NEW JERSEY INSTITUTE OF TECHNOLOGY

Bachelor of Science in Computer Science

Newark, NJ

Sept 2016 – May 2020

- Minor in Applied Statistics.

## SKILLS AND TECHNOLOGIES

---

**MACHINE LEARNING:** Predictive Modeling, Deep Learning, Natural Language Processing, Computer Vision, Quantitative Analysis, Dimensionality Reduction, Convex Optimization.

**SOFTWARE ENGINEERING:** Agile Development, Continuous Integration/Continuous Deployment, Object Oriented Programming, Test Driven Development, Serverless Architecture Design, Microservice Architecture Design.

**TECHNOLOGIES:** AWS, Elasticsearch, RabbitMQ, Jenkins, Jupyter, Jira, Git, Docker, Kubernetes, GraphQL, Keras, Spark, Databricks, Splunk, PostgreSQL, MongoDB, MySQL, Cassandra, Redis, Selenium, Vault, Dynatrace.

**PROGRAMMING:** Python, JavaScript, TypeScript, HTML, CSS, Sass, R, Java, C++, C, SQL, Bash, Julia, Rust, Kotlin.